

發明名稱： 離散ハートレー変換により離散フーリエ変換及び逆変換を計算する装置
A discrete Hartley transform based apparatus for computing the discrete Fourier transform and its inverse

發明名稱：	離散ハートレー変換により離散フーリエ変換及び逆変換を計算する装置
專利證書番号：	175092
出願番号：	088108939
出願日：	1999/6/11
公開番号：	522315

説明

This invention is an N-point discrete Hartley transform based apparatus for quickly computing the N-point discrete Fourier transform (DFT) and its inverse (IDFT), where N is a power of two. The apparatus consists of one real multiplier, three real adders, four RAMs, one ROM, and some simple logic circuits. It can evaluate, in average, one DFT sample every $\log_2 N + 1.5$ clock cycles or one IDFT sample every $\log_2 N + 1$ clock cycles.

